We claim:

1. A method of suppressing microphase separation during preparation of PANiEB films, comprising the steps of:

dissolving PANiEB in a solution;

providing a porous membrane;

placing the porous membrane in the solution;

removing the porous membrane from the solution; and

evaporating the solution.

2. The method of claim 1, wherein the step of dissolving PANiEB in the solution comprises dissolving PANiEB in NMP.

3. The method of claim 1, wherein the step of providing the porous membrane comprises providing a free-standing porous alumina disc having cylindrical parallel pores.

4. The method of claim 3, wherein the step of providing the porous membrane, which has cylindrical parallel pores, comprises providing the porous membrane where the parallel pores are approximately 20 nm in diameter.

5. A method of suppressing microphase separation in PANiEB comprising the steps of:

dissolving PANiEB in NMP to form a solution;

casting a film from the solution by immersing a porous membrane in the solution, wherein the porous membrane has parallel cylindrical pores.

6. The method of claim 5, wherein the average diameter of the cylindrical pores is 20 nm.